

Claims

[c1] What is claimed is:

1.A display having a plurality of display regions, the display comprising at least:

a first display region and a second display region having different display modes;

a first pixel array and a second pixel array; and

a first driving array and a second driving array,

wherein the driving arrays are used to control the image display of the display regions of the display.

[c2] 2.The display of claim 1, further comprising:

a liquid crystal layer located between a first substrate and a second substrate,

wherein the first display region and the second display region of the liquid crystal layer have different display modes.

[c3] 3.The display of claim 1, being an organic light emitting display, a cold light display, or an electrophoretic display.

[c4] 4.The display of claim 1, being a flat panel display.

- [c5] 5.The display of claim 1, wherein each display region has its pixel array.
- [c6] 6.The display of claim 1, wherein the color of each display region is different.
- [c7] 7.The display of claim 5, wherein the pixel array of each display region has the same structure.
- [c8] 8.The display of claim 5, wherein the pixel array of each display region has different structure.
- [c9] 9.The display of claim 5, wherein the pixel array of each display region has different shape.
- [c10] 10.The display of claim 5, wherein the pixel of each display region comprises at least one other pixel.
- [c11] 11.The display of claim 5, wherein the pixel array of each display region has different transmission rate or reflective rate.
- [c12] 12.The display of claim 5, wherein the color of the pixel array of each display region is different.
- [c13] 13.The display of claim 5, wherein the pixel array of each display region comprises at least one subpixel array.
- [c14] 14.The display of claim 13, wherein the pixel array of each display region comprises at least two sets of sub-

pixel arrays.

- [c15] 15.The display of claim 13, wherein the pixel of each display region comprises at least one other subpixel.
- [c16] 16.The display of claim 13, wherein the subpixel of each display region comprises at least one other subpixel.
- [c17] 17.The display of claim 13, wherein the subpixels are periodically arranged in the pixel arrays.
- [c18] 18.The display of claim 13, wherein the transmission rate or the reflective rate of the subpixels in the pixel arrays is different.
- [c19] 19.The display of claim 13, wherein the subpixels in the pixel arrays have different structures.
- [c20] 20.The display of claim 13, wherein the color of each subpixel in the pixel arrays is different.
- [c21] 21.The display of claim 1, further comprising a signal control unit for controlling each driving array to be switched on and off.
- [c22] 22.The display of claim 1, further comprising a data controller having nodes connected to each driving array.
- [c23] 23.The display of claim 22, wherein the nodes are arranged in order.

- [c24] 24.The display of claim 22, wherein a first image comprises a block being the same as a second image or inverse to the second image, defined by the sequence of connection of the nodes.
- [c25] 25.The display of claim 22, further comprising a first and second image display switching device connected to the data controller.
- [c26] 26.The display of claim 25, wherein the data controller comprises:
a first image data unit and a second image data unit; and
a switching device connected to the first image data unit and the second image data unit, in order to switch between the first image and the second image.
- [c27] 27.The display of claim 1, further comprising a first data controller connected to the first driving array, and a second data controller connected to the second driving array.
- [c28] 28.The display of claim 1, wherein the first image and the second image are displayed simultaneously.
- [c29] 29.The display of claim 1, wherein the first image and the second image are the same.
- [c30] 30.The display of claim 1, wherein the second image is

the inverse of the first image.

- [c31] 31.The display of claim 1, wherein the second image is a part of the first image.
- [c32] 32.The display of claim 1, wherein the second image is a part of the inverse of the first image.
- [c33] 33.The display of claim 1, wherein the second image is a reduction of the first image.
- [c34] 34.The display of claim 1, wherein the second image is a reduction of the inverse of the first image.
- [c35] 35.The display of claim 1, wherein the first driving array and the second driving array are thin film transistors (TFT).
- [c36] 36.The display of claim 1, wherein the second driving array is a part of the first driving array.